Menlo Park Notebook #68 [N-80-03-19]

This notebook covers the period March-August 1880. It was used by Ludwig Boehm to keep a record of glassblowing work that he performed for the laboratory staff. Most of the entries relate to vacuum pumps. Many contain the name of the staff member who requested the work. There are also a few entries by George H. Hill, Samuel D. Mott, and Francis Upton. On page 75 is a caricature by Upton of the incandescent lamp, with the inscription "I shed the light of my shining countenance for $15,000 per share." The inside front cover is inscribed: "March 19th 1880 Ludwig K Bohm" and "G H Hill Menlo Park." The book contains 264 numbered pages. Pages 27-28 and 33-36 were removed and used as Edison's exhibits in the patent inferference case of Boehm v. Edison.

Blank pages not filmed: 220-247, 250-261.

Missing page numbers: 27-28, 33-36.

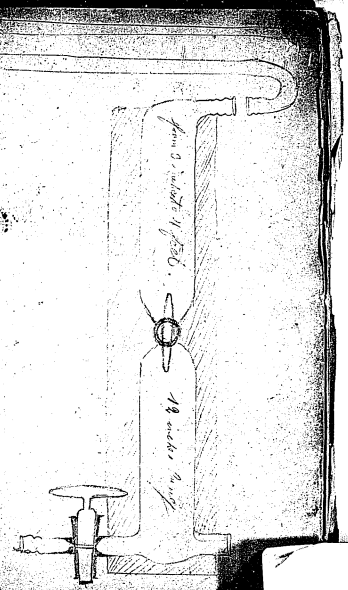
No. 65
March 19th 1880.
Ludwig H. Böhm.

LIBRARY OF THE

BOARD OF PATENT CONTROL,

120 BROADWAY, NEW YORK.

May 1, 1896.



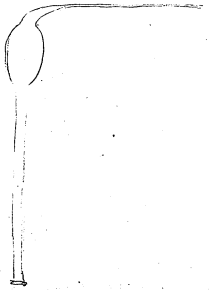
No. 65

March 19th 1880.

Ludwig K. Böhm.

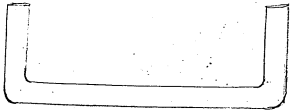
[redacted]

made Parkam [illegible]

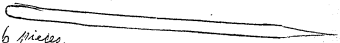


Dr. Morse

Henning



Keney



6 pieces.

April 9. 1880 7

Left arm from shoulder (disarticulated) on cadaver

Weight of arm April 6.80

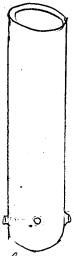
8

April 10. 1880 9

Tube for M. Head's angle made narrow on the single governor pump.

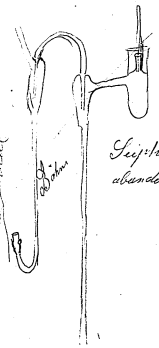
for sub-marine writing telegraph.

April 19th 1880.



Wood time for single syringe pump.

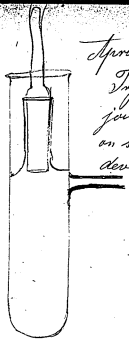
April 18th 1880.

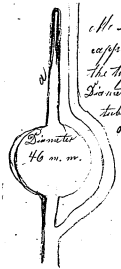


Self-form as the single Sprengel abandoned, not good.

April 13th 1880

Sprengel arrangement and joint for sealing on tubes on single Sprengel pumps, devised by Dr. Moses.

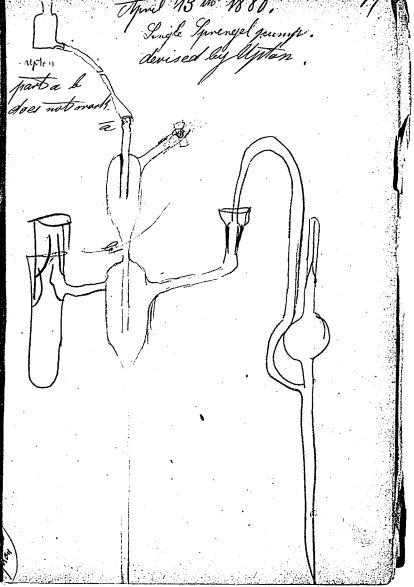




M. Leod gauge capillary tube on the top of tube a. Diameter of tubular tube is about 0.33 m. m.

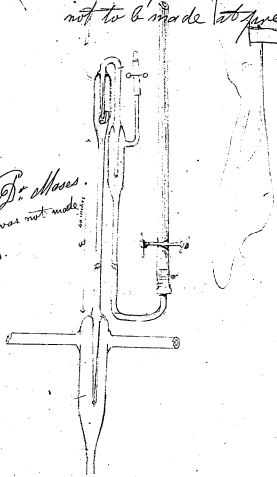
April 13th 1880.

Single Sprengel pump.
devised by Upton.



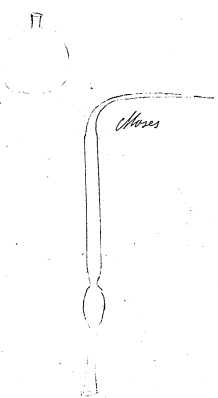
April 13th 1880 19

not to be made at present.



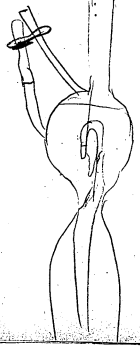
Dr. Moses.

was not made.

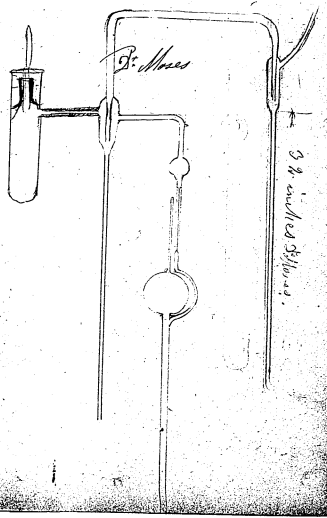


sketch

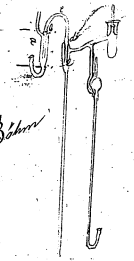
sketch for illustration
an idea.



April 14th 1880. 53



April 14th 1880.



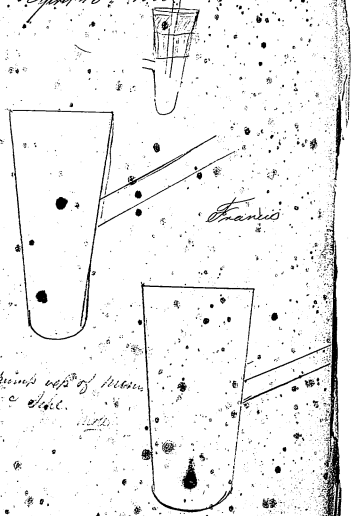
Böhm

part a = 95 m. m. long
cut side diameter is
18 m. m.
tube b c d = 150 m. m. long
part e = 90 m. m.
diameter, 18 m. m.
diameter of the bore
gauge is .95 m. m.
capillary tube
diameter is 1.33 m. m.

Böhm

Böhm

April 16th 1778



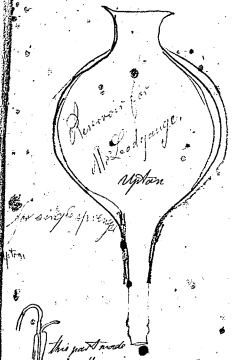
Franklin

For pairing vessels of different
Form & Size.

[ITEM FOUND IN BOOK]

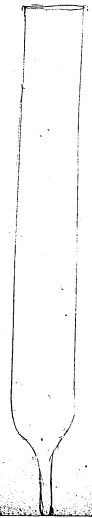
Page 27 cut out and put in evidence in Bolum vs Edison (Edison's Exhibit No. 2)

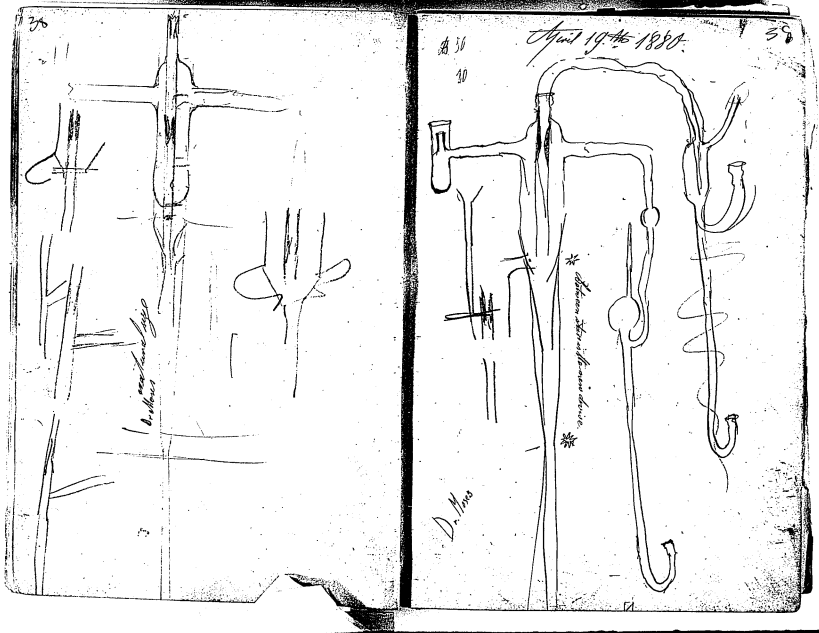
April 16th 1880.



Pages 94 and 95
placed as Exhibits
in Interference
Böhm vs Edison
(Edison's Exhibits 3 and 4)

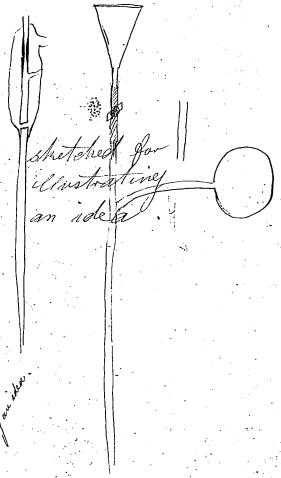
April 10th 1880.





40

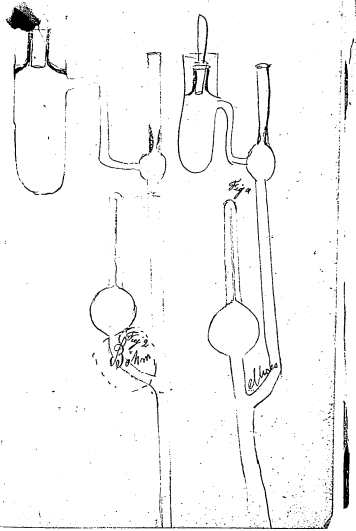
April 19th 1880. 41



sketched for illustrating an idea.

Sketch on page 43 shows a device of a Sprengel pump in which the Lead gauge tube and fall tube are one tube. Fig 1 shows front device. Fig 2 shows second device. Fig 3 was devised by Gilbert. Modification shown in Fig 2 was devised by Dr Lodge

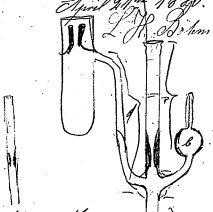
April 20th 1880.



Pump on page 45 was devised
April 21st 1880 mounted and used with

Sp: 1209 / 1208 / 1208 / 1212 / 1215 — 19/4

April 9th 1880.
L.R. Böhm



For taking the radium it is not necessary to stop the flow of the medium, the reservoir

a 800 m. m. long
b 45 . . in diameter
c 800 . . long
d 500 . . "

Böhm

Upton

1

1176 X 760

760

79560

8232

893,760

1

893,760

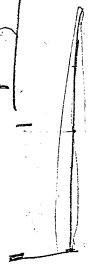
2

1787520

117

1

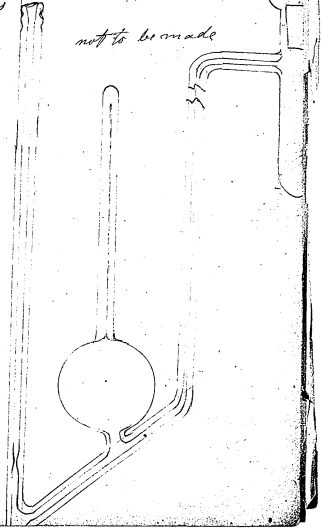
80,000,000



April 22nd 1880.

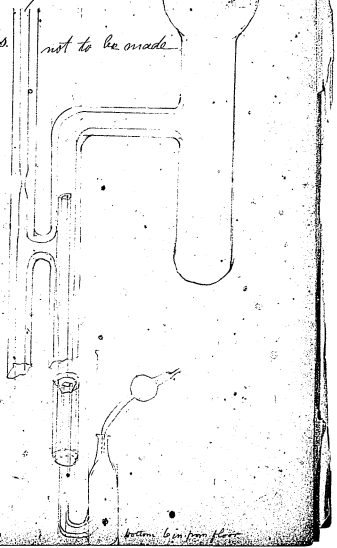
D. Moses

not to be made



Sept 23rd 1880 G. 57

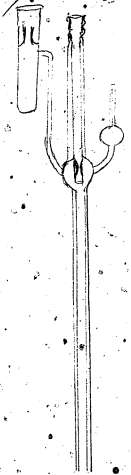
Dr. Moses not to be made



52

April 28th 1880.

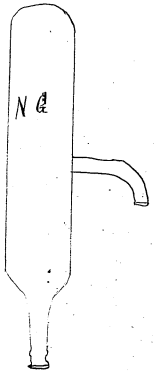
5-3



54

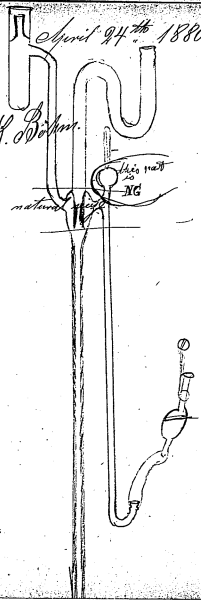
April 24th 1880. 53

L. H. Bohm.

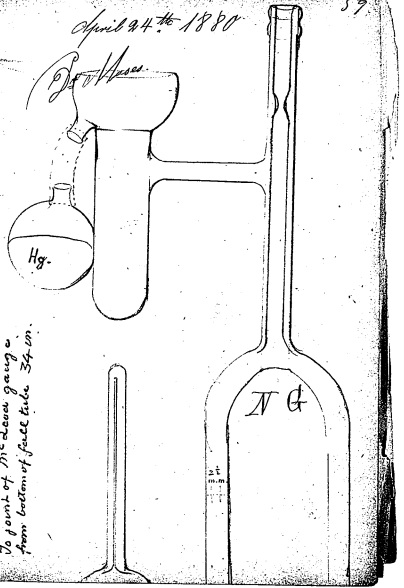


April 24th 1880.

L. H. Böhm.



April 24th 1880



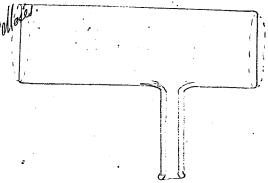
To point of McLeod gauge
from bottom of fuse tube 3¼ in.

60

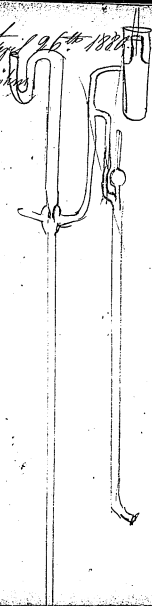
61

August 26th 1880.

D. White

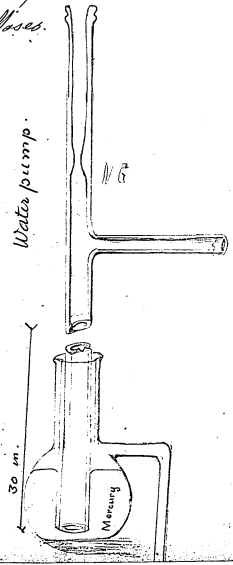


April 26th 1882.
L. K. Boiler



August 4th 1880.

Dr. Moses.

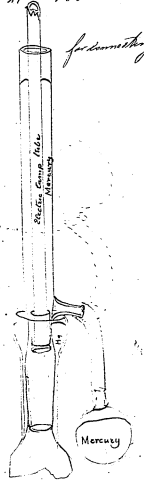


April 24th 1881. 67.

Dr. Moses.

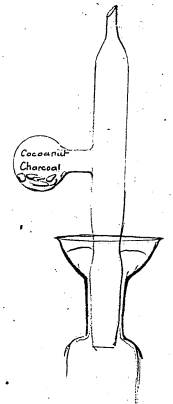
N.C.

for examining lamps.



August 28th 1890.

Dr. Moses.

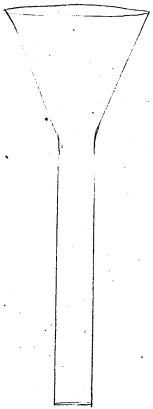


Charcoal?

April 28th 1880.

Hammer

for photographing
antipyrine



April 30th 1880

small gauge bar combination sequence.

Dimensions length of capillary tube = 135 m.m.

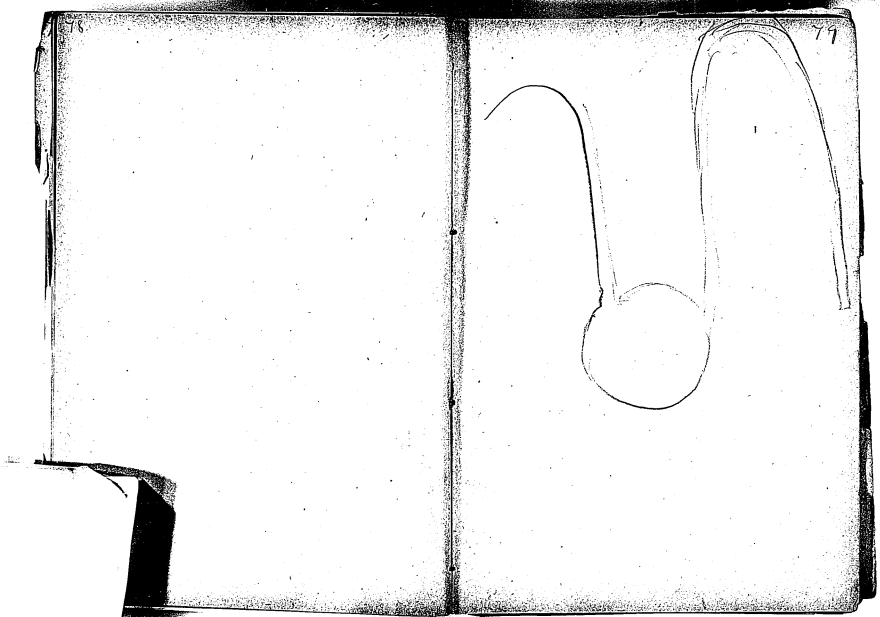
Diameter of bulb = 43 m.m.

Bohm

I shed the light of my
shining countenance
for # 15 000 per share

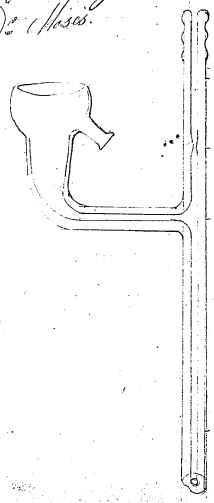
August 30th 1881.

Dr. Morse.

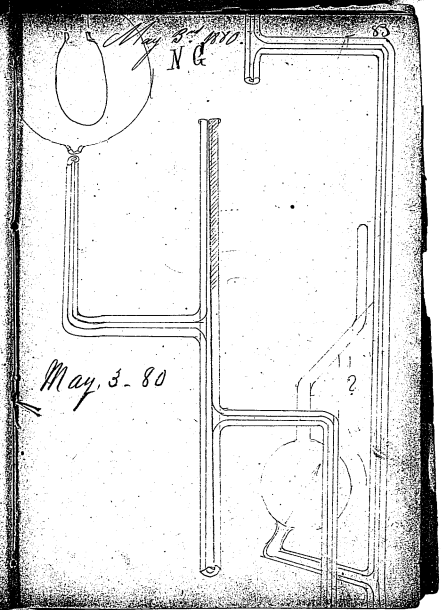


Chimy test 1880.

Sec 1 Hoses.



May 3. 80

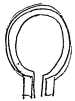


May 3rd 1880.

4. 95
D. 30
35.
D. 40
95
35
30
160.
850
25
245
2350
150
15
40.
35
3850
130
480

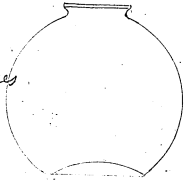
Q. H. Böhm

473 pieces ordered by Mr. Chisam.



May 5th 1880.

D. Moses



2 oz.

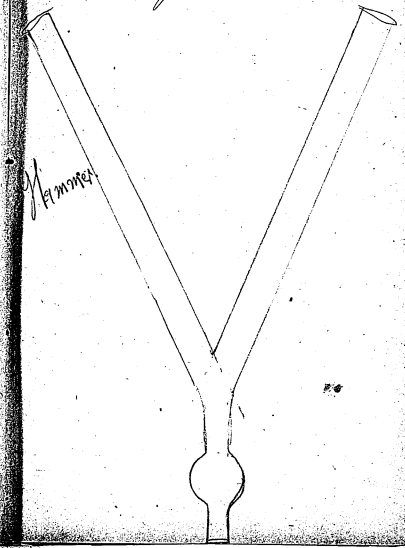
Flaming.

May 6th 1777

Dr. Moses.

½ day. O.A.M.

May 1st 1880.



92

May 8th 1881.

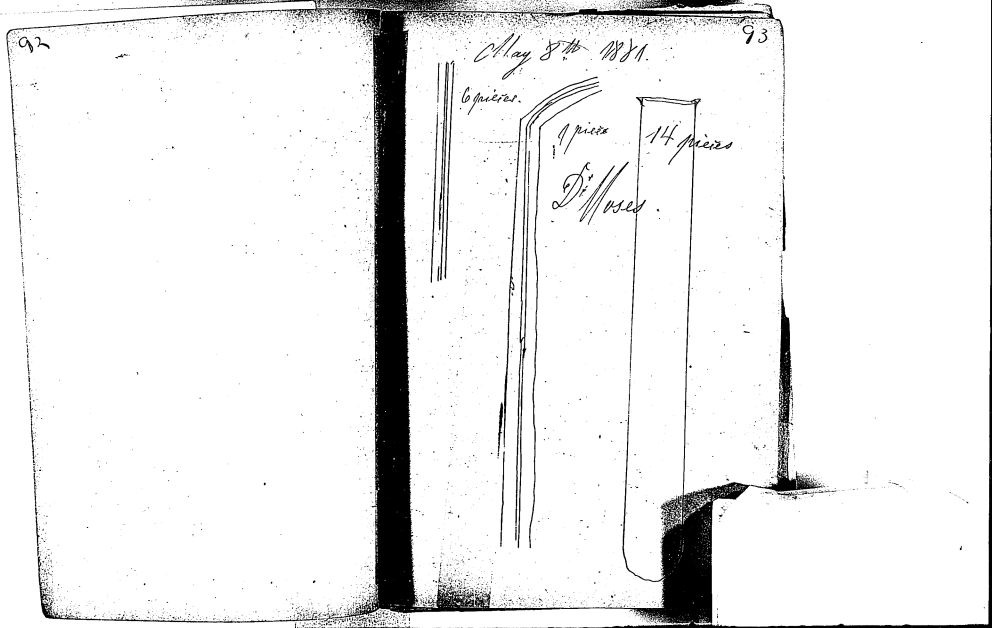
93

6 pieces.

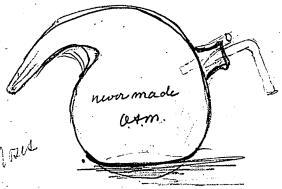
1 piece

14 pieces

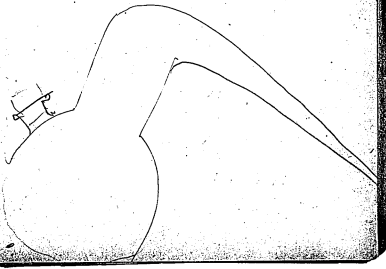
Dr Moses.

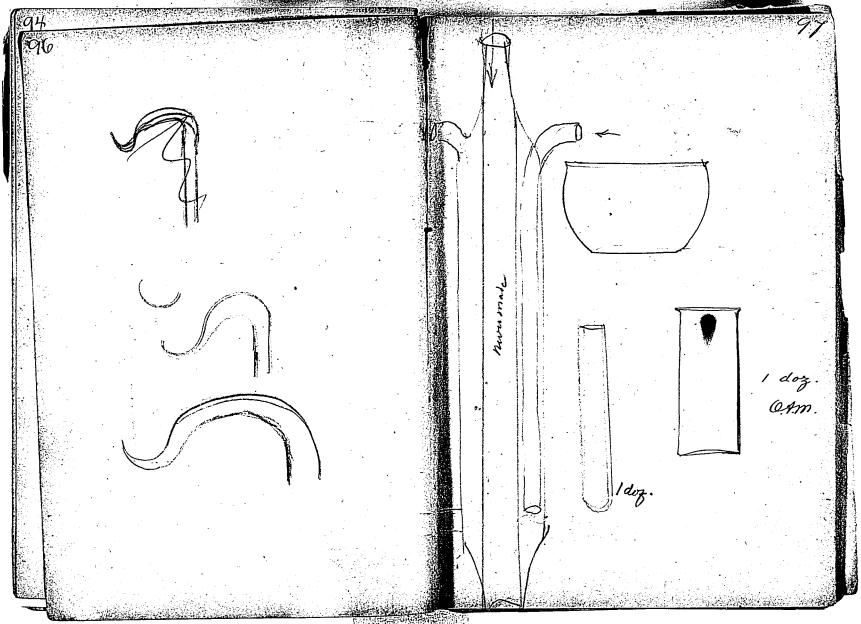


May 8.



Dr Mace

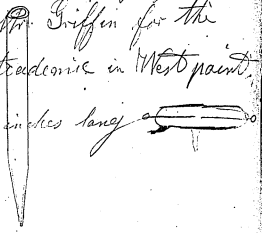



Pneumatic
1 doz.
@ 1m.
1 doz.

May 18th

A highly exhausted spark gauges
ordered by Capt. Griffin for the
military Academic in West point.

about 8 inches long



May 29th 1850.

Dr Moses.

May 31st 1881

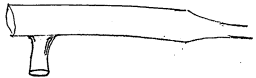
finished springs brought up in the Laboratory	18
in the Carpenter shop	2
for testing taken out	2
brought up in the Laboratory	14
" " " " "	15
Total	51
send up in the Laboratory	18
carried up	23
" " " sitting other	9
" " " "	8
Total	100

Finished on the 1st straight.

First Hundred.

L. H. Bilton

rupees	45
"	43
rupees	86
"	14
All together	100



June 9th 1880.

Finished pumps send up in
the Laboratory 10
sawmill up brave 19
" " 9
" " " 19
" " " 14
Total. 30

June 10th

Finished pumps send up
in the Laboratory 24
brought up brave 19
" " 16
All together . . . 109

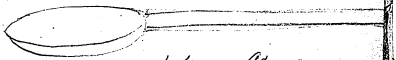
L. H. Bishop Finished on the eleventh.

Second Hundred

106

June 10th 107

Dr Moses



1 Spoon. Oyster.

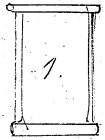
James Reese

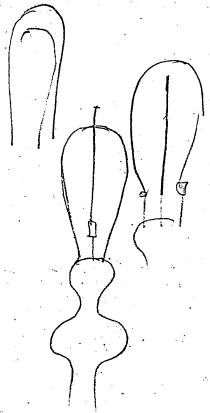
108

109

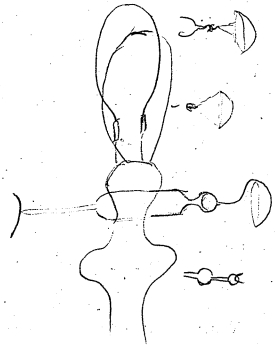
Tallow holder

Atm



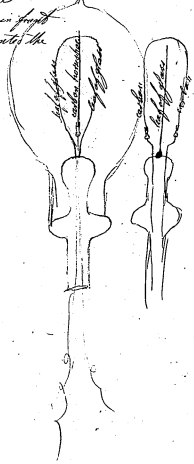


June 15-80



June 15th 1880
T. A. Edison M.D.

Shape of glass is in front view, to separate the carbon legs.



June 15th 1861.

Dr. Moses.

Three counter for determining the specific gravity of solids.

The whole apparatus made of glass.

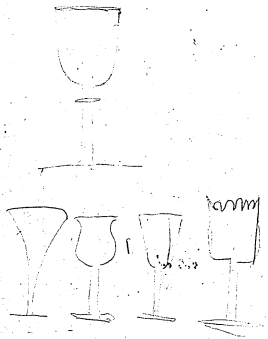
The shallow cup for putting solids in.

The swimmer.

The shallow cup of glass for measuring.

Bottom.

1.16 94 cups
2
1096



117

June 18th 1880.

Pumps finished 23
" " 23
Total 50

June 19th

Finished pumps send up
in the Laboratory 25

June 22nd

Finished pumps send up 26
Grand Total 101

Third Hundred.

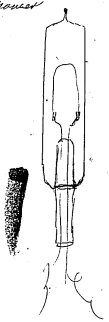
Ludwig K. Böhme.

1/18.

158

June 19th 1880

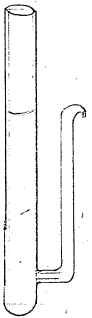
Half a dozen ordered by Edison.
eight candle power
lamps.



$0 = + fc. -$

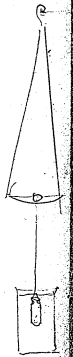
Juni 21st 1880.

D. Moses



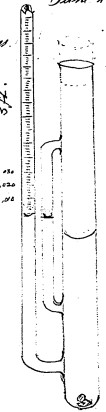
(1)
Atm.

1/9



Juni 22nd 1880.

D: i Mossen.



3/4.

neat. teiju

1
dm.

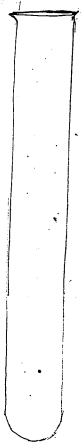
June 21st

T. A. Edison

six eighth candle power lamps more
small size without globes Like those on
page 118. Inside parts like sketch.
not blown up at a.

June 21st 1880. 127

Dr. Moses. Test tubes 1 Doz. made by Bern.



bl 11

June 25th 1880.

2 1/2 high
11 long
6 deep

11 inches

9 1/2 inches

June 23rd 1830.

July 1st 1880.

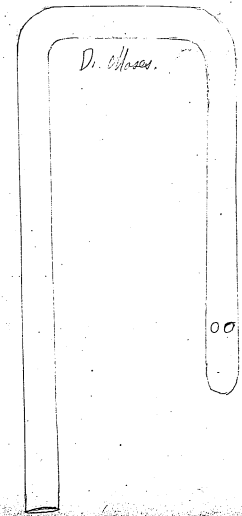
Finished pumps send up in the Laboratory	25
Finished pumps send up in the Laboratory	25
Total	50
Finished pumps send up in the Laboratory	25
Pumps send up in the Laboratory	19
Total	94
Pumps send up in the Laboratory	6
Grand Total	100

Repaired to day 13

One Hundred Hundred

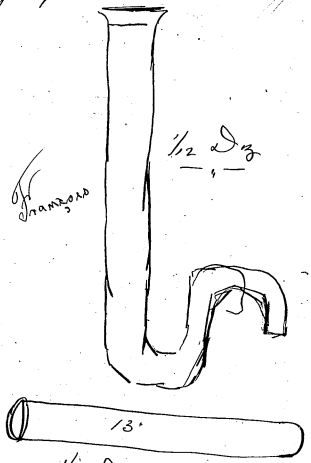
Ludwig K. Böhm.

July 1st 1880



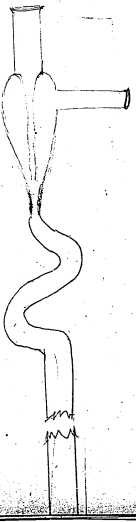
July 3rd 1880

July 3rd/80



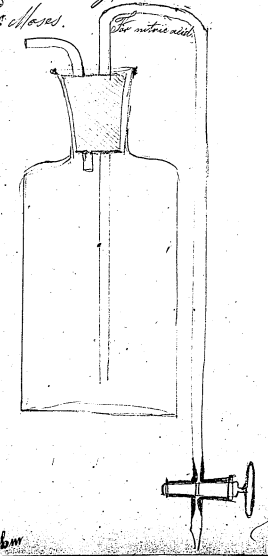
July 6th 1880.

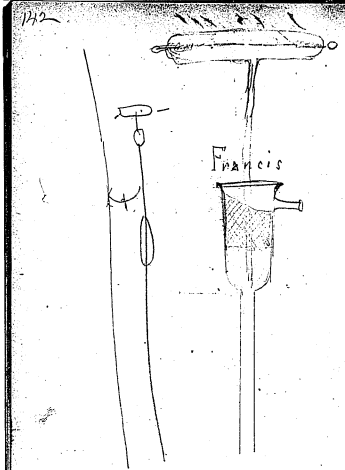
Dr. Moses.



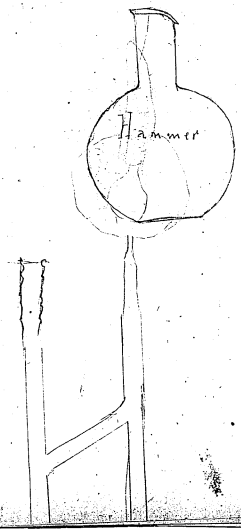
July 6th 1881.

Dr Moses.





July 6th 1880.



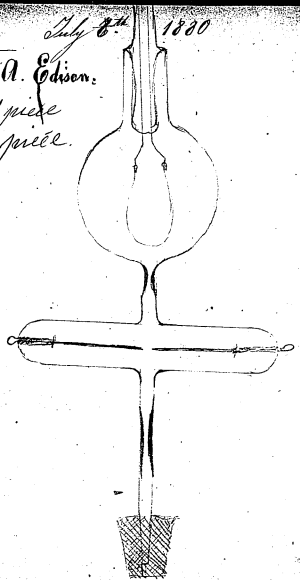
144

July 8th 1880

T. A. Edison.

1 piece

1 piece.



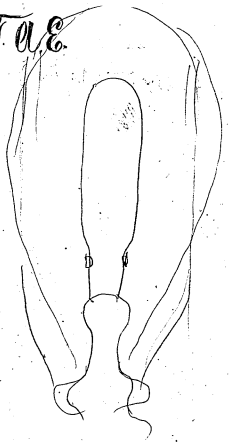
146

specific gravity bottle D. Moses.

July 8th 1880.

147

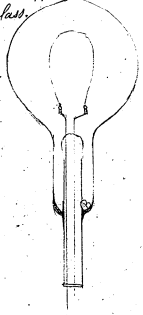
T. A. E.



July 9th 1880

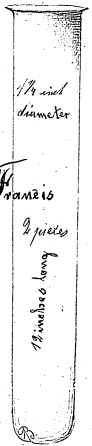
For gauge platinum only

The whole apparatus is to be made of lead glass



Le François

July 9th 1880.



150

July 10th 80

6

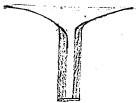
1 One (1) Nest-Test-Tube

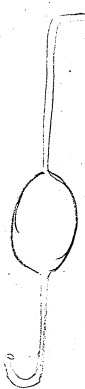
L. Jahl

July 13th 1880

75-1

Mouth piece of
for Hemoglobin D. Hoss





July 13th 1880.

Finished pumps carried up in the Laboratory	25
Finished pumps send up in the Laboratory	25
Total	50
July 14th.	
Pumps finished and send up to the Laboratory	27
Altogether	77
Pumps made before	403
Brewery grand Total	480

Repairs

73 more on July 15th 1880

Ludwig K. Bolens

154.

July 14 80

Geo. Hill

153

156

July 15th 80

3/12 Drs

Test Tube for

Rack

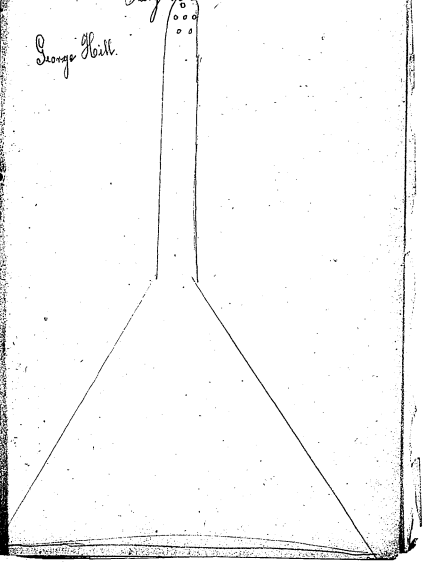
" "

Francis

157

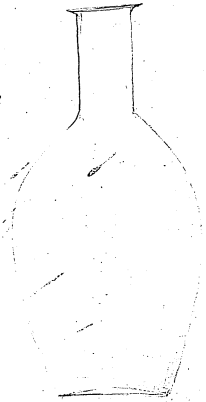
July 16th 1880

George Hill.



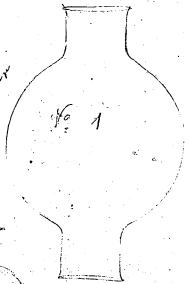
July 14th 1880

Hammer



July 14th 1880

Hammer



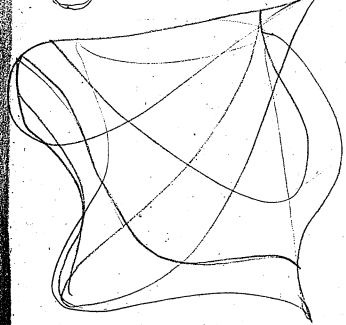
160

July 20. 80.

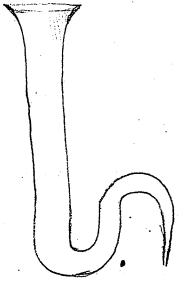
Hammer

161

Samuel Edison
front [illegible]
Mich

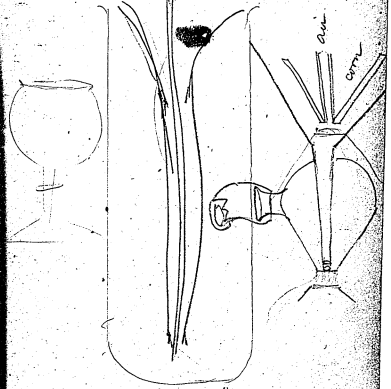


Type Hill

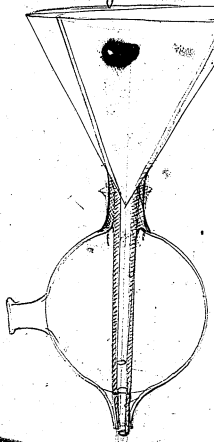


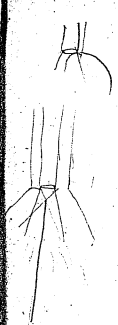
Bulb
200
80
250.

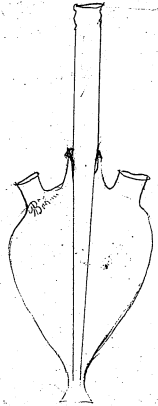
Hammer



July 25th 1880

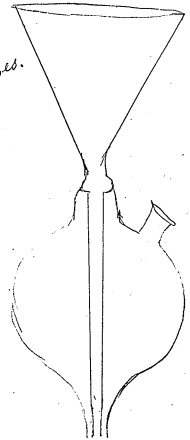






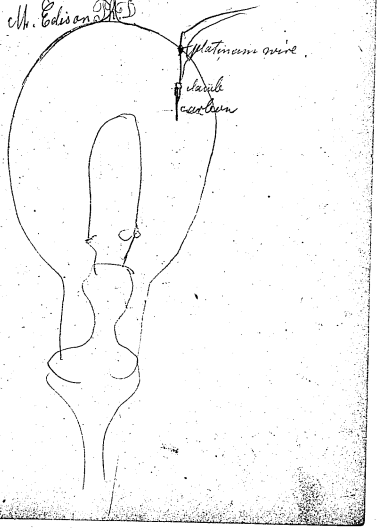
July 24th 1880.

D. Moses.

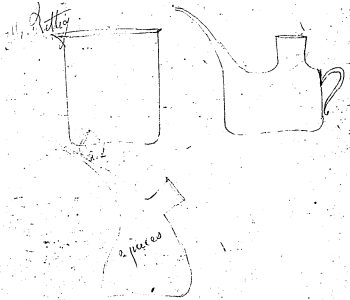


July 26th 1888.

Mr. Edison's [illegible]



July 27th 80.



circumference 31 inch.

3.14 : 14.43 | 4.050907

12.56

1.840

1540

3000

2926

0940

3.14 : 1400 / 446

1256

144

12/500

36/250

18/185

1/5

2½ : 3

3.14 : 3100 / 9,24

3836

264

2000

2087

31

9

1.18

8

14½

4½

56¼

28

32

56

56

9:616 | 28

56

56

18

14

4/4

12¾ : 2134 | 6282 | 99¾

2134

2134

6282

63

52

57

56

49

14

9/4

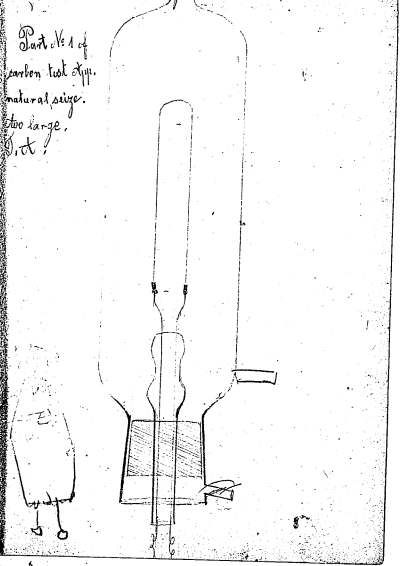
12¾

88:682 | 4¾

616

66 | ¾

Part. № 1 of carbon test sym. natural prize. two large. S.t.



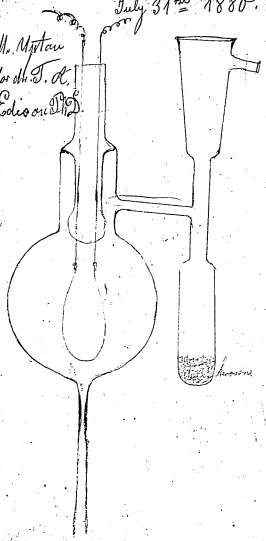
176

Chas. Mott.

July 31st 1880.

177

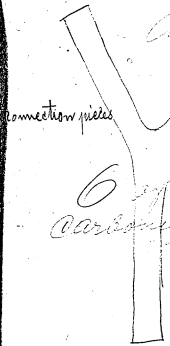
Ch. Mottau
for the T. A.
Edison U.P.



178

179

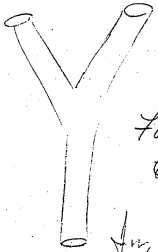
Dwg. 2 80



connection pieces

6 of these for
carrying gunnels
of screens

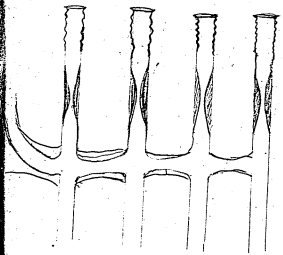
Aug. 3rd 80.



Four (4)
Connecting
tube.
for Carburizing
Furnace.
Furnace

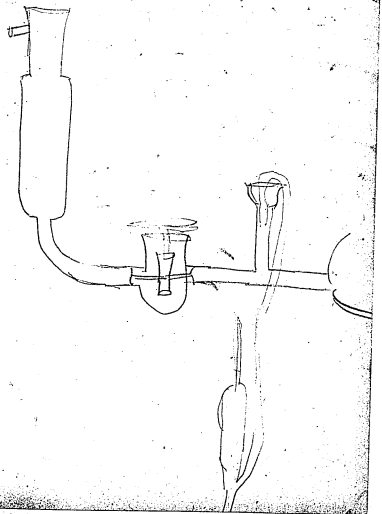
Pen California

Aug. 3rd 1880.



182

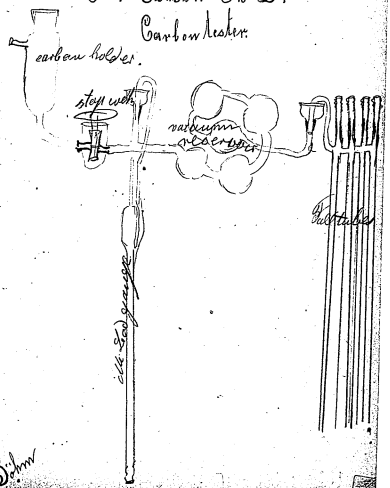
Aug. 8th 1882. 183



Aug. 5th 1880.

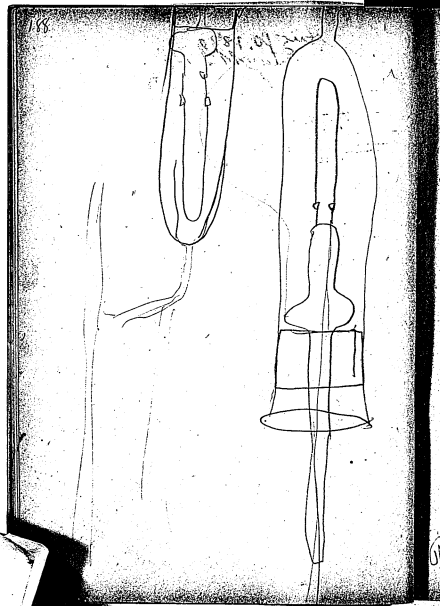
T. A. Edison Ph D.

Carbon holder.



Aug 11th 1880.

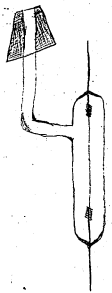
Clarke from
Rahway



Aug. 10, 1880.

Geo. H. Hill

2 pieces.

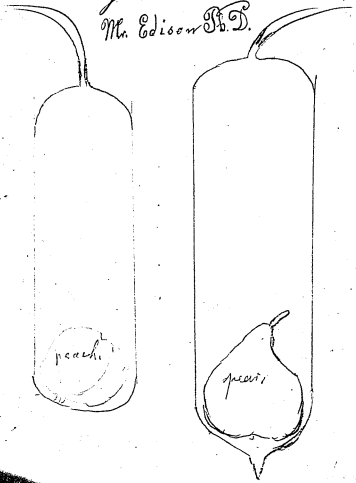


Bohm

190

Aug 16th 1880.

M. Edison Ph. D.



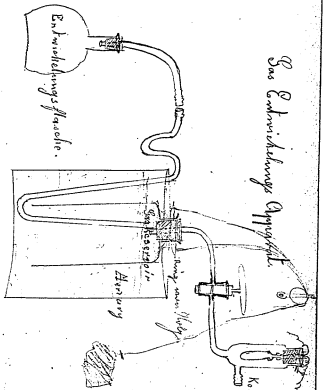
191

Aug. 18th 1880.

Witness by

F. Hird.

Das Entwickelungs Apparat.



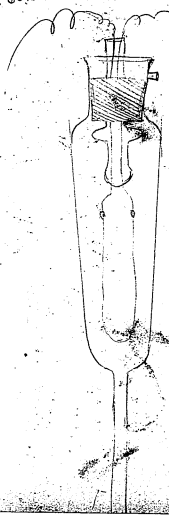
Böhm

192

193

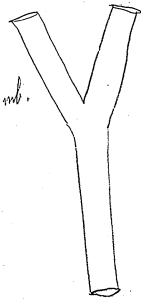
Aug 14th 1880

M. Edison P. B.



Aug 18th 1880.

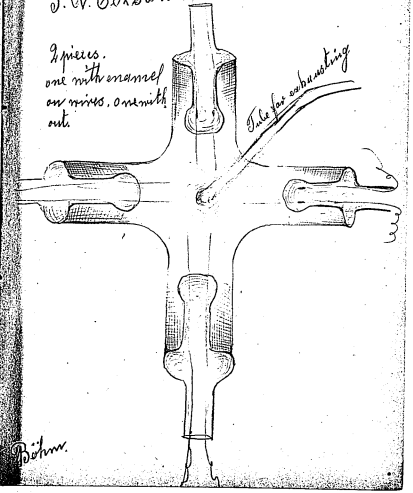
Holcomb.



Aug 14th 1880.
T. A. Edison Ph. D.

2 pieces.
one with enamel
on wires. one with
out.

Tube for exhausting



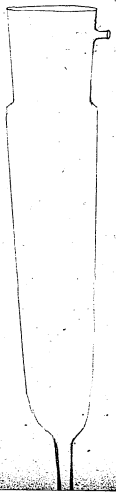
Bottom

196

197

Aug. 13th 1880.

T. A. Edison Fec.



2 pieces California

Aug 17th 1880.

D: Reid.

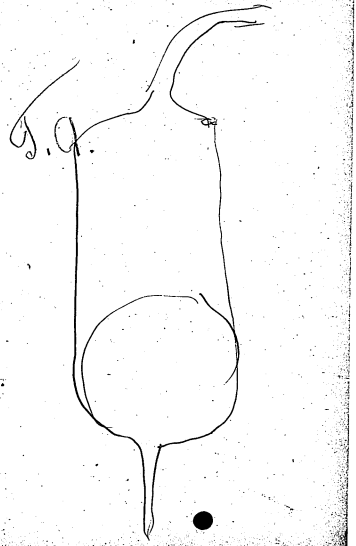
Combustion tubes

4 pieces.

Böhm

200

201

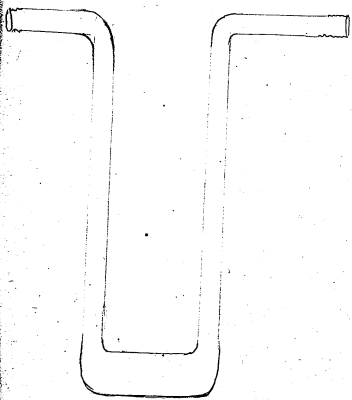


202

203

Aug 24th 1881

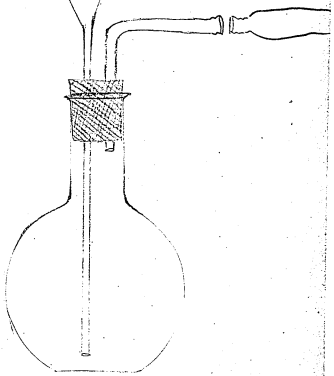
D: Heid.



Johan

~~Aug. 26th~~ 1888.

D: Heid.



Böhm

Aug 20th 1880.

George Hill

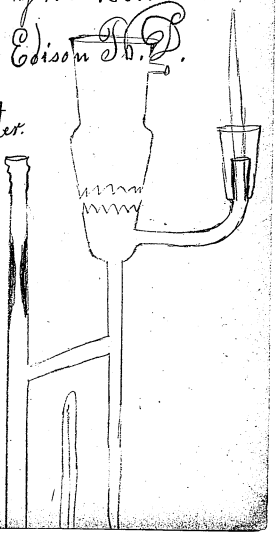
208

209

Aug 21th 1880.

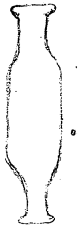
T. A. Edison N.Y.

Carbon tester.



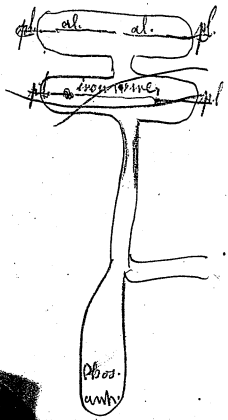
Bohm.

Aug 21 1880
for the Carbon Tester
G.H.H.



Aug 9 3rd 1838

Francis Jail.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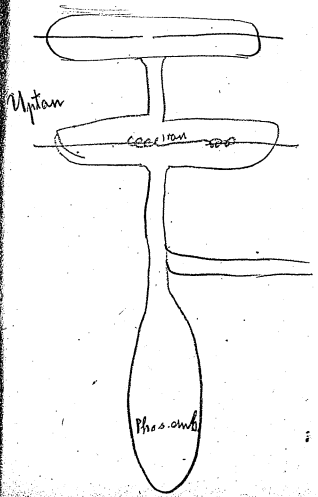
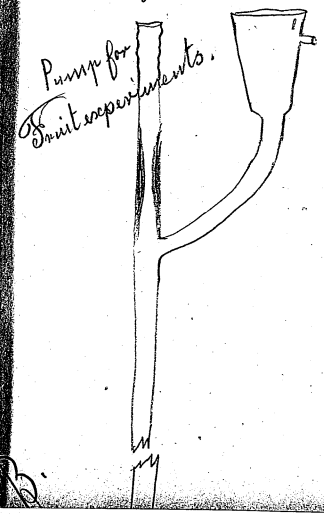
Aug 23th 1880.

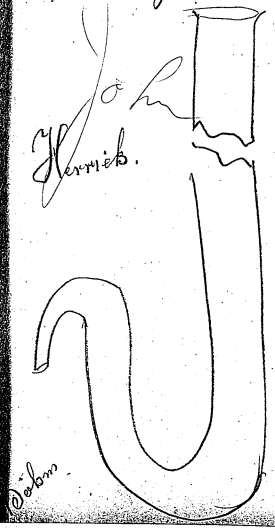


Aug 24th 1880.

Pump for
Fruit experiments.

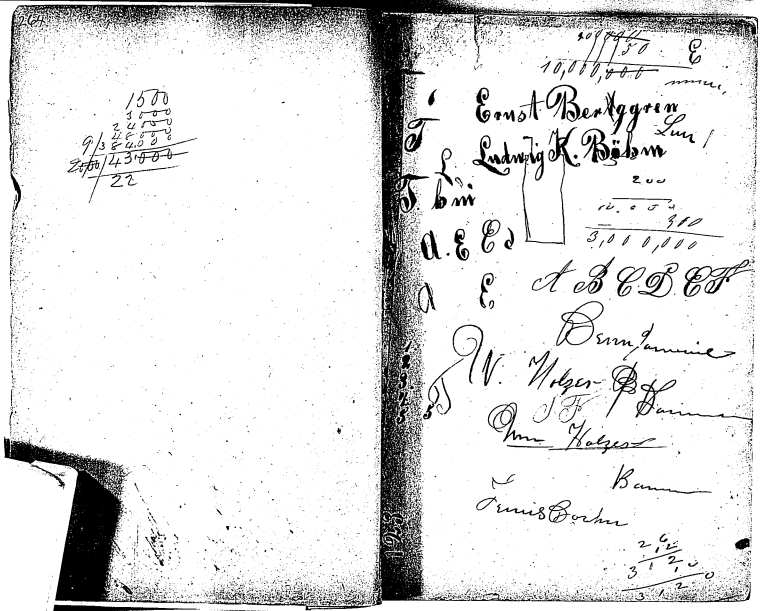


Aug 28th 1880.



John S. Manning

22
22
47
47
454
12
968
484
5-8.08

1827 | 3-80-8 (3.3/7 ans for —
5-40 1
327
7827

4.5 — ans for —